

# LIIT

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## MCA CET Coaching

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### Syllabus and Marking Scheme for MAH-MCA-CET 2018

The Online CET would be comprised of Four (4) sections viz.

- Mathematics & Statistics,
- Logical / Abstract Reasoning,
- English Comprehension and Verbal ability and
- Computer Concepts

#### Marking Scheme MCA Entrance 2018

Section	No. of Questions	Marks per Questions	Maximum Marks	Total Marks
Mathematics & Statistics	30	2	60	200
Logical/ Abstract Reasoning	30	2	60	
English comprehension and verbal ability	20	2	40	
Computer Concepts	20	2	40	
The test will comprise of multiple choice, objective type questions (Four Options)				
There is negative marking system for this CET. Each correct answer will carry 2 marks. Each wrong answer will carry 0.5 negative marks. Unanswered questions will carry zero marks.				
Test Duration : 90 minutes				
Medium of CET: English				
Mode of Examination - Online				

Syllabus: -

#### Mathematics & Statistics:

The questions will cover the following topics of high school mathematics (up to the 12th standard)

- a) **Algebra:** Fundamental operations in Algebra, Expansion, factorization, Quadratic equations, indices, logarithms, arithmetic, geometric and harmonic progressions, binomial theorem, permutations and combinations.
- b) **Co-ordinate Geometry:** Rectangular Cartesian co-ordinates, equations of a line, mid point, intersections etc., equations of a circle, distance formulae, pair of straight lines, parabola, ellipse and hyperbola, simple geometric transformations such as translation, rotation, scaling.

- c) **Differential Equations:** Differential equations of first order and their solutions, linear differential equations with constant coefficients, homogenous linear differential equations.
- d) **Trigonometry:** Simple identities, trigonometric equations, properties of triangles, solution of triangles, height and distance, inverse function.
- e) **Probability and Statistics:** Basic concepts of probability theory, Averages, Dependent and independent events, frequency distributions, and measures of dispersions, skewness and kurtosis, random variable and distribution functions, mathematical expectations, Binomial, Poisson, normal distributions, curve fitting, and principle of least squares, correlation and regression.
- f) **Arithmetic:** Ratios and proportions, problems on time-work, distance-speed, percentage, etc.
- g) **Basic Set Theory and Functions:** Set, relations and mappings.
- h) **Mensuration:** areas, triangles and quadrilaterals, area and circumference of circles, volumes and surface areas of simple solids such as cubes, spheres, cylinders and cones.

### Logical / Abstract Reasoning

This shall include the questions to measure how quickly and logically you can think. This section will cover logical situations and questions based on the facts given in the passage. This test shall check the problem solving capability of the candidate.

### English comprehension and verbal ability

Questions in this section will be designed to test the candidate's general understanding of the English language. There will be questions on the topics such as Basic English grammar, vocabulary, comprehension, synonyms, antonyms, sentence correction, word & phrases, jumbled paragraph.

### Computer Concepts

1. **Computer Basics:** Organization of a computer, Central Processing Unit (CPU), Structure of instructions in CPU, input / output devices, computer memory, memory organization, back-up devices.
2. **Data Representation:** Representation of characters, integers, and fractions, binary and hexadecimal representations, Binary Arithmetic: Addition, subtraction, division, multiplication, signed arithmetic and

two's complement arithmetic, floating point representation of numbers, normalized floating point representation, Boolean algebra, truth tables, Venn diagrams.

3. **Computer Architecture:** Block structure of computers, communication between processor and I / O devices, interrupts.
4. **Computer Language:** Assembly language and high level language, Computer Programming in C.
5. **Operating System basics**

- The test will comprise of multiple choice objective type questions (Four Options)
- There is negative marking system for this CET.
- Each correct answer will carry 2 marks.
- Each wrong answer will carry 0.5 negative marks.
- Unanswered questions will carry zero marks.
- **Test Duration:** 90 minutes
- **Medium of CET:** English
- **Mode of Examination - Online**

#### Test Information & Sample Questions

- All tests will be provided in English.
- You can attempt any question at any point of time within these 1.5 hours (90 minutes).
- All the questions will have multiple choices. Out of the four answers to a question only one will be the correct answer. You have to select the most appropriate answer and 'mouse click' that alternative which you feel is appropriate/correct. The alternative/ option that you have clicked on will be treated as your answer to that question.

### SAMPLE QUESTIONS MATHEMATICS AND STATISTICS

**Q. 1.** The upper part of a tree broken by the wind makes an angle of  $60^\circ$  with the ground and the horizontal distance from the root of the tree to the point where the top of the tree meets the ground is 10 meters. What was the height of the tree before it was broken?

(1) 43.20 m (2) 20 m (3) 37.30 m (4) 39.70 m Q.

**2.** Find the length of the major axis of the ellipse  $16x^2 + 5y^2 = 400$ . (1) 5 (2)  $8\sqrt{5}$  (3) 10 (4)  $10\sqrt{5}$  Q. 3. A, B & C are three mutually exclusive & exhaustive events associated with a random experiment. If  $P(C) = \frac{3}{4}$   $P(A)$ ,  $P(A) = \frac{2}{3} P(B)$ , then  $P(B)$  is \_\_\_\_\_

(1)  $\frac{3}{2}$  (2)  $\frac{4}{13}$  (3)  $\frac{6}{13}$  (4)  $\frac{3}{13}$

**Q. 4.** The average salary of male employees in the firm is Rs.5,000/- and that of female employees is Rs. 4,000/-. The mean salary of all the employees is Rs.4,500/- and If there are 10 male employees, then how many female employees are there in that firm?

(1) 12 (2) 10 (3) 08 (4) 11

### LOGICAL/ABSTRACT REASONING

**Q.1.** In a row of girls, if Seeta who is 10th from the left and Lina who is 9th from the right interchange their seats, Seeta becomes 15th from the left. How many girls are there in the row ?

(1) 16 (2) 18 (3) 19 (4) Other than those given as options

**Q.2-Read the information given below and answer the questions. Six plays A, B, C, D, E and F of a famous playwright are to be staged one on each day from Monday to Saturday. The schedule of the plays is to be in accordance with the following.**

- (1) A must be on the immediately previous day of the on which E is staged.
- (2) C must not be staged on Tuesday.
- (3) B must be on a day which immediately follows the day on which F is staged.

(4) D must be staged on Friday only and should not be immediately preceded by B.

(5) E must not be staged on the last day of the schedule.

**Q.2. Which of the following is the schedule of plays, with the order of their staging from Monday ?**

(1) E A B F D C

(2) A F B E D C

(3) A F B C D E

(4) Other than those given as options

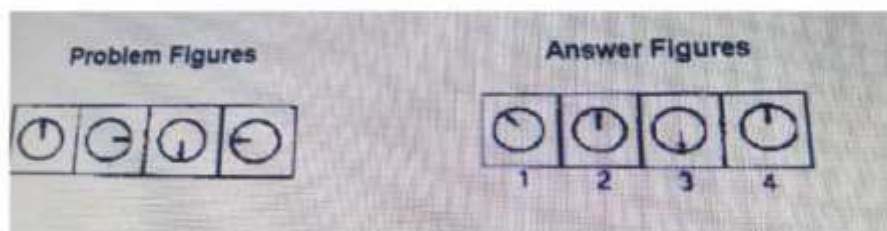
**Q.3. Play C cannot definitely be staged on which of the following days in addition to Tuesday?**

(1) Monday (2) Wednesday (3) Thursday (4) Other than those given as options

**Q.4. Which of the following plays immediately follows B ?**

(1) F (2) E (3) D (4) Other than those given as options

**Q.5. Refer figures given on left side. They form a series. Which of the one given on right side completes the series.**



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- Career Guidance Seminar
- All the Subjects will be covered 1 Month before the University Examination.
- **Test Series:** 2 Internals Test and 2 prelims Test will be conducted.
- We will perform Mock Practical Exam at our branch.

## **TESTIMONIALS of TYIT and TYComputer Sc Students**

### **Prashant , 86% ,Ruparel College**

My experience at LIIT was valuable and unique. The teaching methods from LIIT teacher's provided me with conceptual and logical understanding of each subject. Also along with that the practical sessions, project assistance and exam oriented study materials also helped me to secure good grades. I thank all my LIIT teacher's for helping me throughout the year.

### **Prasad , 81% 1<sup>st</sup> Wilson College**

One of the bestest coaching classes in Mumbai for TYCS & TYIT. Thanks LIIT for an incredible experience. I thank LIIT for finding the best in me and supporting me throughout the year. All the LIIT teaching staff is highly educated and they are best in their fields. Finest & experienced teaching staff and very supportive. LIIT helped me in my project , studies & building my personality. Thanks to LIIT staff. The best ever coaching experience I had.....

### **Snheha , 82% , MD<sup>st</sup>**

I have enjoyed a lot in LIIT... all the faculty here are very supportive, interactive and they are really best... From our start to end every teacher was there to help us at anytime. I love the way Tanuja mam teaches java... She make me feel java so easier and very interesting.. Mustafa sir helped us a lot in projects. Apart from theory practicals session were also conducted... LIIT IS THE BEST.. Thanks to LIIT

### **Hemangi ,77%, 1<sup>st</sup> Chetana College**

I am lucky to be part of LIIT!!! LIIT has the best teaching staff with good experience. I thank faculties of LIIT for their guidance and friendly nature. Faculties creates an environment of enthusiasm for learning. The extra efforts(lectures) they take at the time of examination help us to score more.

### **Prachi , 70% ,Vidyalankar**

As a student LIIT is like a catalyst for programming knowledge. One of the best thing i liked about Liit is their practical oriented approach. Both, Java taught by Tanuja Mam and ASP.Net taught by Madhuri mam were exceptional. Major thing to consider while joining LIIT are their notes. Even previous year question papers were provided by Farhan Sir . Each and every professor have contributed their best toward teaching.

### **Asmita ,97%,Somaiyya College, MCA Entrancec**

Liit faculty team consists of remarkable lecturers. I'm grateful for knowledge which they have passed down to me. Also, I appreciate the friendly nature of the complete faculty and the way they support us and guide us.I appreciate all the efforts they put into every lesson, they teach us from basic level including syllabus to alot more informative things to be known. I have learnt a lot of things from them. Studying is really fun under their guidance. Thank you for everything mam.

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**99%**  
Dhanshree  
Somaiya



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Somaiya College



**97%**  
Asmita  
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**94%**  
Rutuja  
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**Thane Branch** : **Contact : 9967271104 /961960716 ,Please call before you visit**



## ENGLISH LANGUAGE

Q. 1-3 In the given passage there are blanks, each of which has been numbered. Against each blank, five words are suggested, one of which fits the blank appropriately.

**Choose the appropriate word in each case.**

The true \_\_\_\_\_ (1) of rights is duty. If we all \_\_\_\_\_ (2) our duties, rights will not be \_\_\_\_\_ (3) to seek. If leaving duties unperformed we run after rights, they will escape us like an elusive person.

Q.1 (1) end (2) Source (3) Joy (4) purpose

Q.2 (1) fulfill (2) devote (3) discharge (4) imagine

Q.3 (1) far (2) close (3) easy (4) against

**Directions :** In the given sentences, two words are bold & underlined. For each bold & underlined part, four words are listed below. Choose the words nearest in meaning to the italicized & underlined part.

**Q.4 The prisoner made an abortive attempt to escape from the jail.**

(1) Courageous, Gateway (2) Futile, Run Away (3) Illegal, Flee (4) Furtive, Break Out

**Q.5 The new volume provides substantial critical excerpts and biographical information on eight to ten major poets from all eras.**

(1) Sizeable, Sources (2) Ample, Explanation (3) Extensive, Extracts (4) Large, Substances

## COMPUTER CONCEPTS

**Q.1. What is the decimal value of the binary number 111110?**

(1) 31 (2) 62 (3) 64 (4) 126

**Q.2. Which symbols represent a block of code in C?**

(1) { ... code here } (2) (... code here ) (3) [ ... code here ] (4) < ... code here >